

**In the Abstract:**

Please replace the Abstract in record with the new Specification as follows:

-- Methods of designing optimal discrete-time PID (proportional-integral-derivative) controllers and linear controllers are disclosed. The optimal values of the tuning parameters in a PID controller or a linear controller are determined by minimizing the maximum of absolute values of all poles of the discrete-time closed-loop transfer function from the set-point to the process variable subject to, if any, user-specified constraints on one or more of the tuning parameters.--

**In the Drawings:**

Please add Figure 1 and Figure 2 as attached.